

10/707569

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File 8:Ei Compendex(R) 1970-2006/Feb W4
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Set	Items	Description
S1	998	SENS? (S) VEHICLE (S) VISION
S2	998	S1 AND (VISUAL? OR VISION?)
S3	331	S2 AND (COORDINAT? OR POSITION?)
S4	3	S3 AND (DETECT? (3N) SIGNAL?)
S5	3	RD (unique items)

5/3,KWIC/1 (Item 1 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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06015642 E.I. No: EIP02106878632

Title: A study on recognition of road lane and movement of vehicles using vision system

Author: Lee, K.S.; Lee, Jin-Woo; Choi, Sung-Uk; Lee, Young-Jin

Corporate Source: Department of Electrical Engineering Dong-A University, Saha-gu, Pusan, 604-714, South Korea

Conference Title: 40th SICE Annual Conference

Conference Location: Nagoya, Japan Conference Date: 20010725-20010727

E.I. Conference No.: 59032

Source: Proceedings of the SICE Annual Conference 2001. p 38-41 (IEEE cat n 01TH8603)

Publication Year: 2001

CODEN: PSIAEV

Language: English

Title: A study on recognition of road lane and movement of vehicles using vision system

...Abstract: the road lane. This algorithm performs to recognize the interrelation between AGV and the other vehicle. We experimented on AGV driving test with color CCD camera that was set on the top of vehicle and acquired the digital signal. This paper is composed of two parts. One is the reprocessing part to measure the condition of the lane and vehicle. This method finds the information of lines using RGB ratio cutting algorithm, the edge detection...

...using the image processing and view-port. At first, 2-dimensional image information, derived from vision sensor, is interpreted to the 3-dimension information by the angle and position of the CCD camera. Through these processes, if the vehicle knows the driving conditions, which include the lane angle, distance error and real position of other vehicles, we should calculate the reference steering angle as human driving. 8 Refs.

Descriptors: *Intelligent vehicle highway systems; Collision avoidance; Computer vision; Algorithms; Unmanned vehicles; Video cameras; Digital signal processing; Edge detection; Hough transforms; Image sensors; Three dimensional computer graphics; Image analysis; Steering

5/3,KWIC/2 (Item 1 from file: 63)

DIALOG(R)File 63:Transport Res(TRIS)

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00743066 DA

TITLE: MARRIAGE MADE IN MICHIGAN

AUTHOR(S): VINGER, S

CORPORATE SOURCE: UK & INTERNATIONAL PRESS, 120 SOUTH STREET, DORKING, SURREY, RH4 2EU, UNITED KINGDOM

JOURNAL: TRAFFIC TECHNOLOGY INTERNATIONAL Issue Number: 11 Pag: 51-4

PUBLICATION DATE: 19970000 PUBLICATION YEAR: 1997

LANGUAGE: ENGLISH SUBFILE: IRRD (I)

IRRD DOCUMENT NUMBER: 893191

ISSN: 1356-9252

DATA SOURCE: Transport Research Laboratory (TRL)

...ABSTRACT: Program in Oakland County, MI, USA has become the world's largest installation of machine-vision-based vehicle detection

for adaptive traffic signal control of intersections. It uses more than 275 Autoscope processors with more than 1000 image sensors. It demonstrates the effectiveness of integrating Intelligent Transport Systems (ITS) to improve mobility, reduce road accidents, and create a traffic information and incident management centre. It also successfully coordinates surveillance, signal control, and traffic information systems. It monitors the traffic flow at each SCATS...
...over 1000 junctions. The video detection system can detect traffic in multiple locations within the sensor's field of view, and process video from up to four sensors. A typical junction has one image sensor for each of its approaches. The Autoscope system's coverage equals that of 6000 inductive loop sensors. Ways of establishing remote communications links to each Autoscope unit are being explored, so that...

5/3,KWIC/3 (Item 2 from file: 63)
DIALOG(R)File 63:Transport Res(TRIS)
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00721119 DA

TITLE: ENGINEERED VISIBILITY WARNING SIGNALS: AN IDEA PROJECT

AUTHOR(S): Cohn, TE

CORPORATE SOURCE: Vertis. Vehicle, Road and Traffic Intelligence Society,
2-3-18, Kudan-Minami, Chiyoda-ku, Tokyo 120, Japan

REPORT NUMBER: Volume 1

Pag: p 452

SUPPLEMENTAL NOTES: Five volumes of papers and one volume of abstracts
comprise the published set of conference materials.

PUBLICATION DATE: 19951100 PUBLICATION YEAR: 1995

LANGUAGE: English SUBFILE: HRIS (H)

ISSN: N/A

AVAILABILITY: Vertis. Vehicle, Road and Traffic Intelligence Society;
2-3-18, Kudan-Minami, Chiyoda-ku ; Tokyo; Japan

ORDER NUMBER: N/A

CONFERENCE TITLE: Steps Forward. Intelligent Transport Systems World
Congress

...ABSTRACT: new warning signals whose purpose is to alert the driver to incipient difficulties related to vehicle operation, proximity of other vehicles, driving conditions, and vehicle position. In this study, the optimal configuration of these signals at the driver's eye is...

...such signals while minimizing the time to react. Accumulated research in the human factors and vision literature points to a number of constraints and desirable properties that a warning signal display must satisfy. Using this work, plus known characteristics of the human visual system, a set of specifications for the warning signal display is developed. Specifications include temporal, chromatic, and spatial characteristics of the visual stimuli to be used as warning signals. A proprietary process is incorporated in the design that is thought to optimize both signal detectability and salience by supplying visual warning signal optimized for processing by the fastest and most sensitive nervous pathway in the human visual system. The project will rigorously test human performance with a display that satisfied these specifications...

DESCRIPTORS: WARNING SIGNALS; DRIVER REACTION; VISUAL BEHAVIOR; HUMAN
PERFORMANCE; INTELLIGENT TRANSPORTATION SYSTEMS; UNITED STATES

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